

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

LIL001.US

U.S. APPLICATION NO. (if known, see 37 CFR 1.5

10/501610

INTERNATIONAL APPLICATION NO.

PCT/US03/00998

INTERNATIONAL FILING DATE

10 JANUARY 2003

PRIORITY DATE CLAIMED

23 JANUARY 2002

TITLE OF INVENTION

MODULAR REGENERATIVE HEAT EXCHANGER SYSTEM

APPLICANT(S) FOR DO/EO/US

D'SOUZA, MELANIUS

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10.  An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.  A preliminary amendment.
14.  An Application Data Sheet under 37 CFR 1.76.
15.  A substitute specification.
16.  A power of attorney and/or change of address letter.
17.  A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18.  A second copy of the published international application under 35 U.S.C. 154(d)(4).
19.  A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20.  Other items or information:

CALCULATIONS PTO USE ONLY

DT 04 Rec'd PCT/PTO 14 JUL 2004

21.  The following fees are submitted:  
**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):**  
 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. .... \$1080.00  
 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... \$920.00  
 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$770.00  
 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$730.00  
 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00  
**ENTER APPROPRIATE BASIC FEE AMOUNT =**

\$ 100<sup>00</sup>/<sub>100</sub>

Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

\$ -

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$
Total claims	37 - 20 =	17	x \$18.00	\$ 306 <sup>00</sup> / <sub>100</sub>
Independent claims	3 - 3 =	0	x \$86.00	\$ -
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$290.00	\$ -

**TOTAL OF ABOVE CALCULATIONS =**

\$ 406<sup>00</sup>/<sub>100</sub>

Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.

\$ 203<sup>00</sup>/<sub>100</sub>

**SUBTOTAL =**

\$ 203<sup>00</sup>/<sub>100</sub>

Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

\$ -

**TOTAL NATIONAL FEE =**

\$ 203<sup>00</sup>/<sub>100</sub>

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +

\$ -

**TOTAL FEES ENCLOSED =**

\$ 203<sup>00</sup>/<sub>100</sub>


Amount to be refunded:	\$ -
charged:	\$ -

- a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b.  Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \_\_\_\_\_. A duplicate copy of this sheet is enclosed.
- d.  Fees are to be charged to a credit card. **WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

**NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO: (CUSTOMER NO: 29047)

MELANIUS D'SOUZA  
 1718 AVENIDA ENTRADA  
 SAN DIMAS, CA 91773-4314

  
 SIGNATURE

MELANIUS D'SOUZA  
 NAME

42,458

REGISTRATION NUMBER

10/501610

In the United States Patent and Trademark Office

In re. Application of : **Melanius D'Souza**  
 Serial Number: Not Assigned  
 Date: July 9, 2004  
 For: **Modular Regenerative Heat Exchanger System**

U.S. NATIONAL STAGE APPLICATION UNDER 35 USC 371

Commissioner for Patents  
Washington, District of Columbia 20231

Dear Sir:

Please initiate the US national stage patent application for the following PCT application:

Name of Applicant: Melanius D'Souza  
 Title of Application: Modular Regenerative Heat Exchanger System  
 PCT Application No.: PCT/US03/00998  
 PCT Application Filing Date: January 10, 2003  
 Priority Date: January 23, 2002


Enclosed are the following:

- Transmittal Letter Form PTO-1390: 2 Sheets
- Declaration Form PTO/SB/01: 2 Sheets
- Credit Card Payment Form PTO-2038: 1 Sheet
- Return Receipt Postcard

Please send all correspondence to agent (USPTO Customer No. 29047) shown below.

Respectfully submitted:


Date: July 9, 2004

By:   
 Melanius D'Souza  
 Reg. No. 42,458.

Melanius D'Souza  
 1718 Avenida Entrada,  
 San Dimas, CA 91773-4314.

Express Mail Label No: ER 277284825 US

I hereby certify that this paper (along with any paper referred to as being attached or enclosed), is being deposited with the United States Postal Service using "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to "Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450".

  
 Melanius D'Souza

Date of Deposit: July 14, 2004